

Early-environment effects: Towards integrating theoretical and empirical approaches

18-21 July 2017, Arolla, Switzerland

This workshop is sponsored by the CUSO Inter-University Doctoral Program in Ecology and Evolution

Organizer: Barbara Taborsky

Tuesday 18 July

Arrival at Hotel Kurhaus in Arolla

19:30 Dinner

Wednesday 19 July

08:00 Breakfast

09:15 – 09:45 **Barbara Taborsky:** Opening and introduction to the workshop

10:00 – 11:00 **Plenary discussion round:** Introduction of participants and presentation of ideas (1 by each person)

11:00 – 11:30 Coffee break

11:30 – 12:30 **Victoria Braithwaite:** In search of resilience: effects of earlier life experience

12:30 – 13:45 Lunch break

13:45 – 14:45 **Sinead English:** How information use shapes our understanding of early-environment and transgenerational effects

14:45 – 15:45 **Tim Fawcett:** Anticipating the future: adaptive behaviour in autocorrelated environments

15:45 – 17:15 Tea/coffee/cakes + **Parallel discussion sessions**

- 1) How to capture environmental complexity in models of development? (*Supervisors: Sinead English and Tim Fawcett*)
- 2) Early life experience and parental effects: How do they promote fitness and by which mechanisms? (*Supervisors: Victoria Braithwaite and Leif Engqvist*)

17:15 – 18:15 Students: Preparation for presentations of workshop group results

18:15 – 19:15 **Students: Presentations of results from workshop groups**
General discussion

19:30 Dinner

Thursday 20 July

09:00 – 10:00	Carmen Sandi:	Behavioral shaping by peripubertal stress in rodents – A focus on glucocorticoids, their molecular targets, and brain development
10:00 – 11:00	Olof Leimar:	Detection vs. selection: integration of genetic, epigenetic and environmental cues in fluctuating environments
11:00 – 12:30	Coffee break + parallel discussion sessions	
	3) How to include physiological mechanisms (hormones, neurones, metabolism, ...) in developmental models? (<i>Supervisors: Carmen Sandi and Olof Leimar</i>)	
	4) Developmental plasticity and non-genetic inheritance in a changing world (<i>Supervisors: Suvi Ruuskanen and Bram Kuijper</i>)	
12:30 – 13:45	Lunch break	
13:45 – 14:45	Students: Preparation for presentations of workshop group results	
14:45– 15:45	Students: Presentations of results from workshop groups	
	General discussion	
15:45 – 16:15	Tea/coffee/cakes	
16:15 – 17:15	Suvi Ruuskanen:	Early-life hormonal environment, development, behavior and fitness - an avian perspective
17:15 – 18:15	Bram Kuijper:	Maternal versus paternal influences on early life
18:15 – 19:15	Final plenary discussion	
19:30	Dinner	

Friday 21 July

08:00	Breakfast
09:00	Excursion to the mountains and departure

Assignment to discussion groups:

Wednesday		Thursday	
Group 1	Group 2	Group 3	Group 4
Adwait Deshpande	Ben Turnbull	Alex Jordan	Adwait Deshpande
Alex Jordan	Deja Nuotcla	Ben Turnbull	Barbara Taborsky
Barbara Taborsky	Diogo Antunes	Diogo Antunes	Dario Josi
Dario Josi	Jo Frommen	Jan Näf	Deja Nuotcla
Jan Näf	Maria Reyes	Maria Larriva	Jo Frommen
Lucia Montesana	Michael Taborsky	Maria Reyes	Lucia Montesana
Maria Larriva	Mukta Watve	Michael Taborsky	Mukta Watve
Pia Stettler	Sakshi Sharda	Rebecca King	Pia Stettler
Rebecca King	Silvia Monari	Sakshi Sharda	Sophie Brajon
Zahra Qureshi	Sophie Brajon	Silvia Monari	Zahra Qureshi
	Will Swaney	Will Swaney	